

* SWBAT solve apply $W=F \cdot d$ to an everyday situation

Sep 6-2:31 PM

Welcome!!!

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- * Pick up:
 - slip of paper (for later)



SECA Physics
Wednesday 11 November 2015

Opening Questions:

Have you ever helped load up a moving truck?

Ever tried putting things in with and without a ramp?
Why do you think it makes such a big difference?

Centering...

Sep 7-7:04 AM

WORK IS WHEN A
FORCE CAUSES A DISPLACEMENT.
 ↳ PUSH OR PULL ↳ NOT SAME PLACE

MEASURED IN JOULES

Nov 20-12:17 PM

Centering...

Work is when a FORCE causes a DISPLACEMENT.

Essential Question: When trying to load a washer up into a truck, how does the distance up the ramp affect the force and work needed?

Let's try it out...

RAMP TO GET BOX ONTO
U-HAUL

| 30° | | 45° | | 60° | |
|-------|-------|-------|-------|-------|-------|
| F (N) | d (M) | F (N) | d (M) | F (N) | d (M) |
| 2.5 | 100 | 3.5 | 64 | 4 | 57 |
| 256 | | 224 | | 228 | |
| 6 | 100 | 7.7 | 67 | 9.3 | 54 |
| 600 | | 551 | | 502 | |

$W = F \cdot d$

$W = F \cdot d$
 ABOUT THE SAME = ↑ · ↓

NO FREE LUNCH

Nov 13-7:47 AM

Summarize = Answer essential question:
What was our experiment? What did the results show?

Nov 13-7:53 AM

— JOULES

Work is when

A FORCE CAUSES A DISPLACEMENT

— JOULES

Energy is

THE ABILITY TO DO WORK

PP 147-150

Nov 19-6:56 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

| Name | Period |
|------|--------|
| 1. | |
| 2. | |
| 3. | |

Sep 9-7:32 AM

1. How many different angles did we try with our experiment?

3

2. When the weight was dragged on the ramp **farther distances**, what happened to the force?

A. more force needed

B. same force needed

C. less force needed

$d \uparrow$ $F ?$

3. [~~Did~~ ^{ARE} you turn ^{ING} in your summary?]

YES

Nov 16-7:45 AM